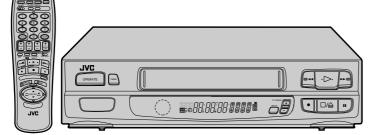


VIDEO CASSETTE RECORDER

HR-A630EK HR-A631EK



The recorder illustrations appearing in this instruction manual are of the HR-A630EK.

INSTRUCTIONS

CONTENTS

	-
SAFETY FIRST	2
Safety Precautions Some Do's And Dont's	2
INSTALLING YOUR NEW RECORDER Basic Connections	4
Tune The TV To Your Video Recorder	
Connection To A Satellite Receiver	6
Connection To A Stereo System	7
INITIAL SETTINGS	8
Tuner Set	
Clock Set	
PLAYBACK	11
Basic Playback Playback Features	. 11 12
RECORDING	17
Basic Recording	
Recording Features	
TIMER RECORDING	20
Information On Video Plus+	. 20
Guide Channel Set	
Video Plus+ Timer Recording Regular Timer Programming	
Check And Cancel Programmes	. 26
PDC Recording	
EDITING	27
Edit To Or From Another Video	
Recorder Edit From A Camcorder	
USING THE CONFIRMATION DISPLAY Storing Channels Manually	29
Delete A Channel	
Change Station Preset Position	. 30
Set Stations	. 31
TV STATION AND ID LIST	33
TV STATION CHANNEL NUMBER GUIDE	34
TROUBLESHOOTING	35
QUESTIONS AND ANSWERS	37
INDEX	38
SPECIFICATIONS	43

PU30425-1799

SAFETY FIRST

Safety Precautions

The rating plate and the safety caution are on the rear of the unit.

WARNING: DANGEROUS VOLTAGE INSIDE WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

IMPORTANT

Connection to the mains supply in the United Kingdom. DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain a proper safety approved extension lead/adapter or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply. If this product is not supplied fitted with a mains plug then follow the instructions given below:

DO NOT make any connection to the Larger Terminal coded E or Green.

The wires in the mains lead are coloured in accordance with the following code:

> Blue to N (Neutral) or Black Brown to L (Live) or Red

If these colours do not correspond with the terminal identifications of your plug, connect as follows: Blue wire to terminal coded N (Neutral) or coloured Black. Brown wire to terminal coded L (Live) or coloured Red. If in doubt — consult a competent electrician.

CAUTION

- When you are not using the recorder for a long period of time, it is recommended that you disconnect the power cord from the mains outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the mains outlet prior to connecting or disconnecting any signal lead or aerial.



- Only cassettes marked "VHS" can be used with this videorecorder.
- HQ VHS is compatible with existing VHS equipment. Video Plus+ and PlusCode are trademarks of Gemstar Development Corporation. The Video Plus+ system is
- manufactured under licence from Gemstar Development Corporation.

IMPORTANT

- Please read the various precautions on p. 2 3 of this instruction manual before installing or operating the recorder
- It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

The OPERATE button does not completely shut off mains power from the unit, but switches operating current on and off.

Video tapes recorded with this video recorder in the LP (Long Play) mode cannot be played back on a single-speed video recorder.

Failure to heed the following precautions may result in damage to the recorder, remote control or video cassette.

1. <u>DO NOT</u> place the recorder . . .

- ... in an environment prone to extreme temperatures or humidity.
- ... in direct sunlight.
- ... in a dusty environment.
- ... in an environment where strong magnetic fields are generated.
- ... on a surface that is unstable or subject to vibration.
- 2. DO NOT block the recorder's ventilation openings.

3. DO NOT place heavy objects on the recorder or remote

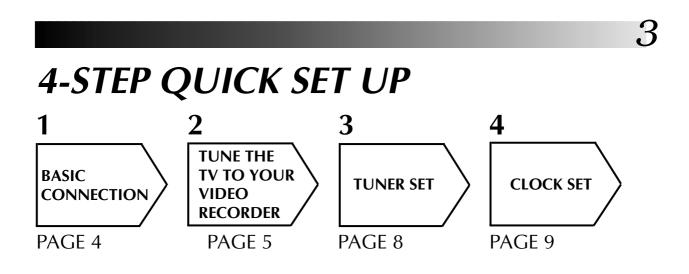
- control. 4. DO NOT place anything which might spill on top of the recorder or remote control.
- 5. AVOID violent shocks to the recorder during transport.

MOISTURE CONDENSATION

Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions-just as water droplets form in the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the recorder turned on for a few hours to let the moisture dry.

ABOUT HEAD CLEANING

Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Be sure to contact your nearest JVC dealer if such troubles occur.



Some Do's And Don'ts On The Safe Use Of Equipment

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

- **DO** read the operating instructions before you attempt to use the equipment.
- **DO** ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.
- **DO** consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.
- **DO** be careful with glass panels or doors on equipment.
- **DON'T** continue to operate the equipment if you are in any doubt about it working normally, or if it is damanged in any way switch off, withdraw the mains plug and consult your dealer.
- **DON'T** remove any fixed cover as this may expose dangerous voltages.
- **DON'T** leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family knows how to do this. Special arrangements may need to be made for infirm or handicapped people.
- **DON'T** use equipment such as personal stereos or radios so that you are distracted from the requirements of road safety. It is illegal to watch television whilst driving.
- **DON'T** listen to headphones at high volume, as such use can permanently damage your hearing.
- **DON'T** obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.
- **DON'T** use makeshift stands and NEVER fix legs with wood screws to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.
- **DON'T** allow electrical equipment to be exposed to rain or moisture.

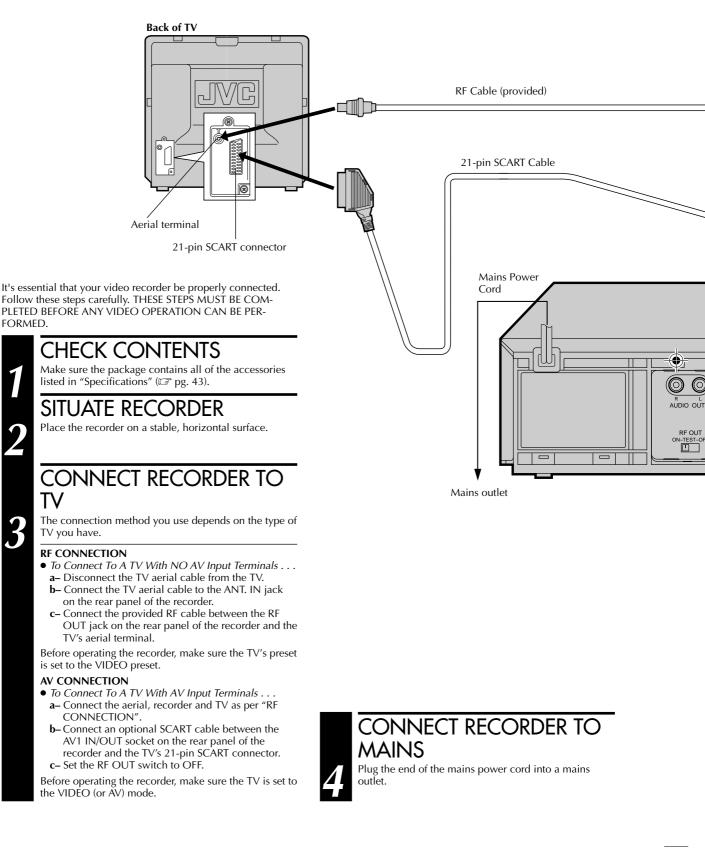
ABOVE ALL...

- NEVER let anyone especially children push anything into holes, slots or any other opening in the case this could result in a fatal electrical shock;
- NEVER guess or take chances with electrical equipment of any kind it is better to be safe than sorry!

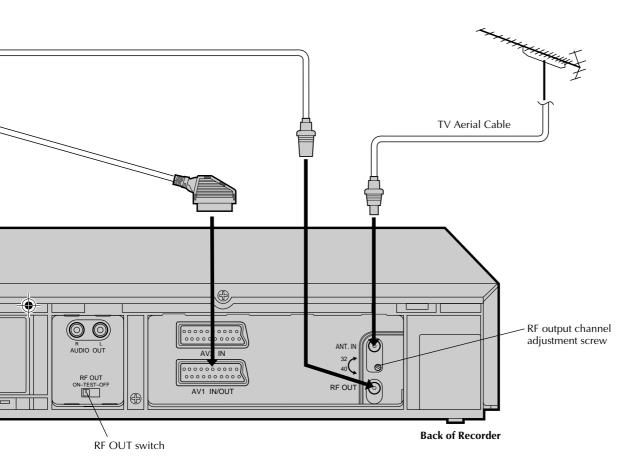


FORMED.

Basic Connections



Tune The TV To Your Video Recorder



The video recorder sends picture and sound signals via the RF connecting cable to your TV on UHF channel 36.



TURN ON THE RECORDER Press OPERATE.

SELECT OUTPUT MODE

Set the **RF OUT** switch on the back of the recorder to TEST.

SET TV PRESET

Set your TV to the video preset (UHF channel 36). Two white bars appear on screen vertically.

Tune the TV until the bars are as clear as they can be.
Your TV should be set to the preset designated for use with a video recorder, or to a spare preset if there is not a specified video preset on your TV.

RESET OUTPUT MODE Return the **RF OUT** switch to ON.

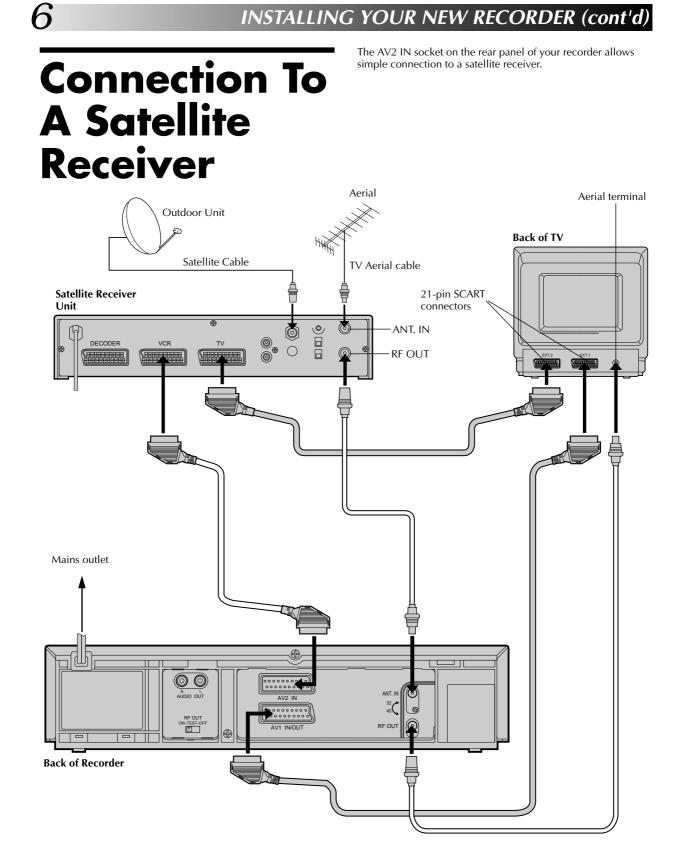
4

3

NOTE:

If some interference noise is continually seen on the screen, consult your JVC dealer.

5

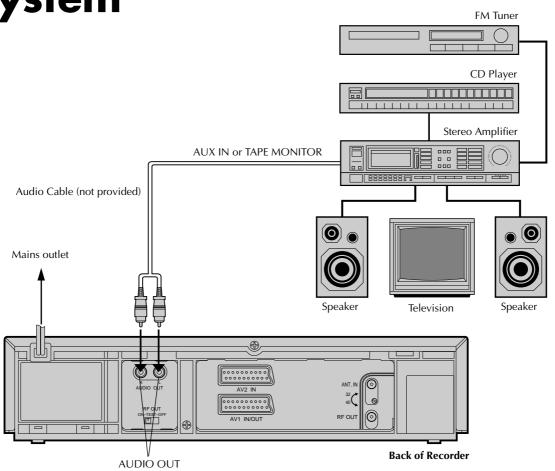


NOTES:

- When connecting your recorder to a TV equipped with 21-pin SCART connectors, follow the illustration above using the cables shown in gray.
- For details, check your satellite receiver's instruction manual.

Connection To A Stereo System

These instructions enable you to connect your video recorder to your Hi-Fi stereo system (if you have one) and listen to the soundtrack through the stereo.





MAKE CONNECTIONS

Connect the AUDIO OUT L and R connectors on your video recorder to the AUX IN or TAPE MONITOR terminals on your stereo system's receiver or amplifier.

NOTES:

- When connecting your recorder's audio output connectors to a stereo amplifier, make sure you connect L and R correctly.
- If NICAM TV broadcasts are receivable in your area, this recorder can record them independently of the TV set and play them back through the connected stereo system.
- When listening to sound through the connected stereo system, turn the TV's volume down completely.

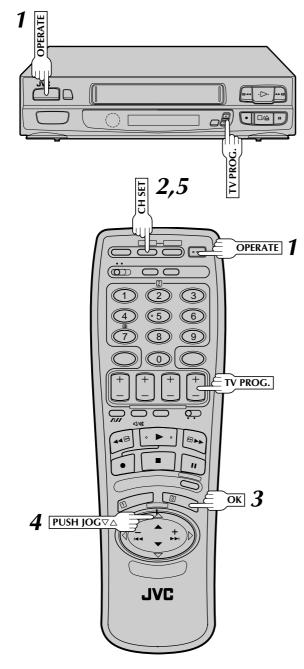
CAUTIONS:

- This recorder has a dynamic range of more than 80 dB with regards to its Hi-Fi audio capability. It is recommended that you check the maximum level if you are going to listen to the Hi-Fi audio signals through a stereo amplifier. A sudden surge in the input level to the speakers may damage them.
- Some speakers and televisions are specially shielded to prevent television interference. If both are of the non-shielded type, do not place the speakers adjacent to the TV set as this can adversely affect the video playback picture.

INITIAL SETTINGS

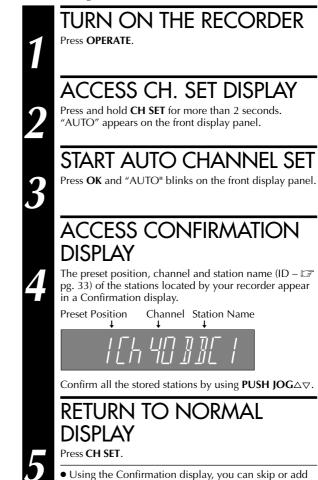
Tuner Set

8



Your recorder needs to memorise all necessary stations in preset positions in order to record TV programmes. ATS+ (Auto Tuning System) automatically assigns all receivable stations in your area to call them up with the **TV PROG.** buttons without going through any vacant channels.

The following procedure describes how to select automatic channel setting.

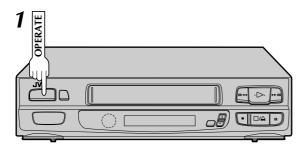


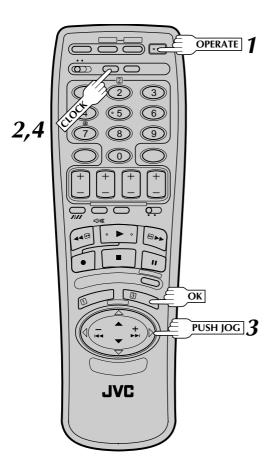
- Using the Confirmation display, you can skip or add preset positions, enter station names and perform other operations. Refer to page 29 for the procedures.
- Depending on the reception conditions, the stations may not be stored in order, and the station names may not be stored correctly.

NOTES:

- Fine tuning is performed automatically when you select "AUTO CH SET". If you want to perform it manually, refer to page 32.
- To set the tuner manually, refer to "Storing Channels Manually" (c] pg. 29).

Clock Set





If you performed Auto Channel Set (IP pg. 8), the recorder's built-in clock is also set automatically. The Auto and Manual clock setting procedures are necessary when . . .

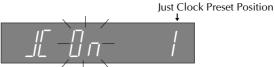
- a power outage of more than 3 minutes occurs.
- the tuner has been set manually.
- the user desires to set the clock slightly ahead of the actual time.
- the clock was not set even after Auto Tuner Set was performed.

Whether you perform Auto or Manual clock setting, you can use the convenient Just Clock function.

Just Clock

The Just Clock function provides accurate time keeping through automatic adjustments at regular intervals, by reading data from a PDC signal.

The Just Clock option appears in the Just Clock display, and can be set "ON" or "OFF" (the default setting is "ON"). Press **OK** until the Just Clock setting begins blinking, then press **PUSH JOG** $\Delta \nabla$ to change the setting.



IMPORTANT: If you turn off Just Clock off, the accuracy of your recorder's built-in clock may be reduced, which could adversely effect timer recording.

Both Auto and Manual clock setting procedures begin from step 3.

Preparation



TURN THE RECORDER ON Press OPERATE.

ACCESS CLOCK SET DISPLAY

Press **CLOCK** on the remote control. The Clock Set display appears.

Auto Clock Set



At the Clock Set display, press **PUSH JOG** ▷. The Clock Set display blinks and clock setting begins.

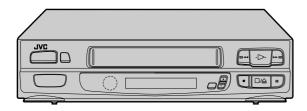
If the Just Clock preset position isn't set to the preset position on which Auto Clock data is received,
 "Err"(or) appears, and then the display from step 2
 reappears. To set the Just Clock preset position, press
 OK until the Just Clock preset position begins
 blinking, then cycle through the numbers by pressing
 PUSH JOG△▽ until the number representing the
 preset position in which the station transmitting clock
 setting data (BBC1, BBC2, etc.) is stored appears.

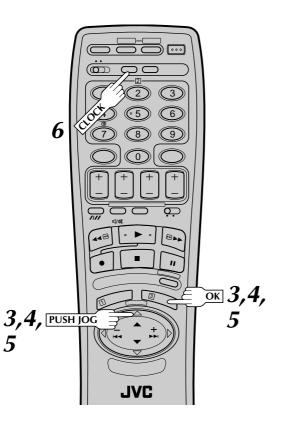
CONTINUED ON NEXT PAGE.

INITIAL SETTINGS (cont.)

Once clock setting is completed, press CLOCK to return

RETURN TO NORMAL





NOTES:

10

- Just Clock (when set to "ON") enables adjustment of the recorder's built-in clock every hour on the hour, except for 11 o'clock in the evening and midnight.
- Just Clock is not effective when . .
- the recorder's power is on (unless the recorder is tuned to the same preset selected in the Just Clock display). the recorder is in the Timer mode.
- a difference of more than 3 minutes exists between the built-in clock's time and the actual time.
- If Just Clock is set to "ON", the recorder's clock is automatically adjusted at the start/end of Summer Time.
- Auto clock setting and Just Clock may not function properly depending on the reception condition.
- During Manual clock setting, if the day and month data are invalid (such as 31st April), the month digits are cleared automatically and the day digits begin blinking. Input the correct data.
- If, in step 3 of the Manual clock setting procedure, the year digits are automatically cleared and the day digits begin blinking, it is possible that you have input 29th February for a non-leap year. Input the correct data.

Manual Clock Set

DISPLAY

to the normal display.



After inputting the year, press OK and the Just Clock display appears.

Year

SET JUST CLOCK

The default setting is "ON". Set as desired by pressing **PUSH JOG** $\triangle \nabla$, then press **OK**.



• If you set to "OFF", you can disregard the next step as you won't be able to receive regular clock adjustments.

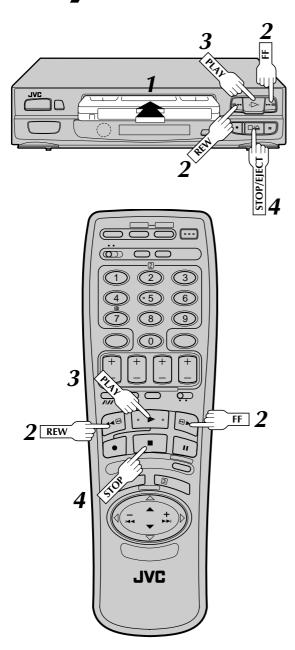
SET CLOCK DATA SOURCE PRESET POSITION

The recorder is preset to receive clock setting and adjustment data from preset position 1. Press PUSH **JOG** $\triangle \nabla$ to set the preset position to the number representing the station transmitting clock setting data, then press **OK**.



PLAYBACK

Basic Playback



The easiest, most basic operation possible with your video recorder is tape playback. Already-recorded signals on a video tape are read by your video recorder and displayed on your TV just like a TV programme.

LOAD A CASSETTE

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is point toward the recorder. Don't apply too much pressure when inserting.

- The recorder power comes on automatically and the counter is reset to 0:00:00.
- If the record safety tab has been removed, playback begins automatically.

FIND PROGRAMME START POINT

If the tape is advanced past the start point, press **REW**. To go forward, press **FF**.

START PLAYBACK Press PLAY.

STOP PLAYBACK

Press **STOP** on the remote or **STOP/EJECT** on the recorder's front panel. Then press **STOP/EJECT** to remove the cassette.

Usable cassettes

3

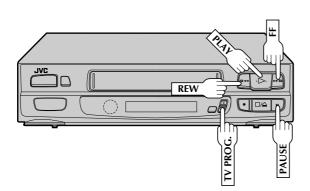


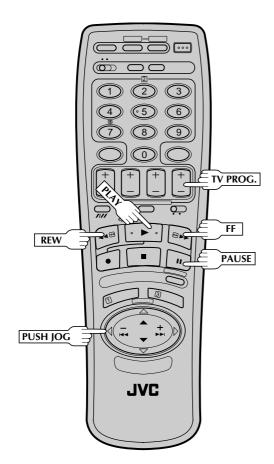
- this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back regular VHS signals only. It is not possible to play back a recorded Super VHS tape.

PLAYBACK (cont.)

Playback Features

12





Take advantage of special functions possible with the recorder's controls or the remote control.

Still Picture/Frame-By-Frame Playback



PAUSE DURING PLAYBACK Press PAUSE. If there is vertical jitter, use the TV PROG. buttons to correct the picture.

ACTIVATE FRAME-BY-FRAME PLAYBACK

Press PAUSE again.

To resume normal playback, press PLAY.

Slow Motion



ACTIVATE SLOW-MOTION PLAYBACK

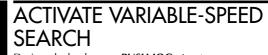
During still picture, press and hold **PAUSE** for 2 seconds, then release. Press and release again to return to still picture.

OR

During still picture, press and hold **PUSH JOG** \triangleleft or \triangleright . Release to return to still picture.

To resume normal playback, press PLAY.

Variable-Speed Search



During playback, press **PUSH JOG** ⊲or ▷.

- The more times you press, the faster the playback picture moves.
- To decrease speed, press the button for the opposite direction.

To resume normal playback, press **PLAY**.

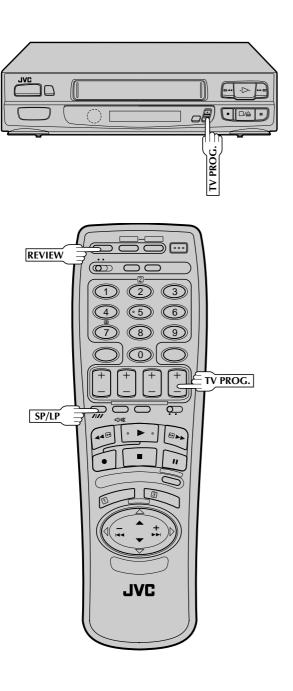
High-Speed Search

ACTIVATE HIGH-SPEED SEARCH

During playback or still, press **FF** for forward highspeed search, or **REW** for reverse high-speed search.

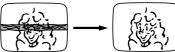
• For short searches during playback or still, press and hold **FF** or **REW** for over 2 seconds. When released, normal playback resumes.

To resume normal playback, press PLAY.



Manual Tracking

Your video recorder is equipped with automatic tracking control. During playback, you can override this and adjust the tracking manually by pressing the **TV PROG**. buttons.



OVERRIDE AUTOMATIC TRACKING

Press **SP/LP (////)** on the remote to engage manual tracking.

ADJUST TRACKING MANUALLY

Press TV PROG. + or – to adjust tracking.

RETURN TO AUTOMATIC TRACKING

Press **SP/LP** (*I***/***II***) on the remote to re-engage automatic tracking.**

NOTE:

When a new tape is inserted, the recorder enters the automatic tracking mode automatically.

Instant ReView

Simply by pressing a single button, the recorder power comes on, rewinds, and begins playback of the last timer-recorded programme. If you have several programmes recorded, you can easily access any of them.

NOTE:

Before starting, make sure that the recorder is off and that the Timer mode is disengaged.

ACTIVATE INSTANT REVIEW

Press **REVIEW**. The recorder power comes on and the recorder searches for the index code indicating the start of the last timer-recorded programme. Once it's found, playback begins automatically.

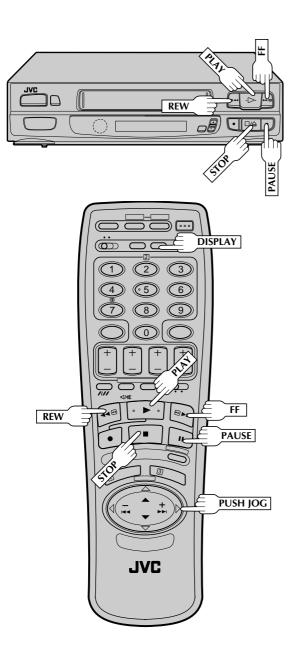
The front display panel tells you how many programmes have been recorded. If you have, for example, 3 programmes, "REV 3" appears and blinks. To watch the first of the 3 programmes, press **REVIEW** <u>three times</u>. The recorder searches and begins playback automatically. You can access a programme as far as 9 index codes away from the current tape position.

NOTE:

• Instant ReView is not possible while the recorder is in the Timer mode.

PLAYBACK (cont.)

14



Index Search

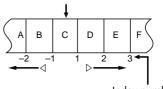
Your recorder automatically marks index codes at the beginning of each recording. This function gives you quick access to any one of 9 index codes in either direction.

NOTE:

Before starting, make sure the recorder is in the Stop mode.

ACTIVATE INDEX SEARCH

- Press **PUSH JOG** \triangleleft or \triangleright (**I** $\triangleleft \bullet$ or $\triangleright \models$). "-1" or "+1" is displayed on the display panel and search begins in the corresponding direction.
- To access index codes 2 through 9, press PUSH JOG
 ⊲ or ▷ repeatedly until the correct index number is displayed.
 - Ex.: To locate the beginning of B from the current position, press **PUSH JOG** ⊲ twice. To locate the beginning of D from the current position, press **PUSH JOG** ▷ once. Current position



- Index number
- When the specified index code is located, playback begins automatically.

Repeat Playback

Your video recorder can automatically play back the whole tape 20 times repeatedly.



START PLAYBACK

Press PLAY.

ACTIVATE REPEAT PLAYBACK

Press **PLAY** and hold for over 5 seconds, then release.

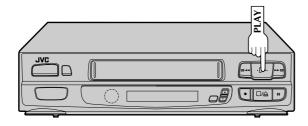
- The Play indicator (>) on the display panel blinks slowly.
- The tape plays 20 times automatically, and then stops.

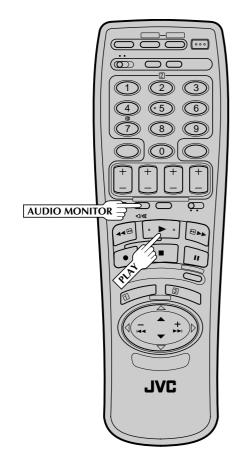
STOP PLAYBACK

Press **STOP** at any time to stop playback.

NOTE:

Pressing PLAY, REW, FF or PAUSE also stops Repeat Playback.





NTSC Playback

Your video recorder is equipped with NTSC circuitry that can play back NTSC tapes.



START PLAYBACK

Press PLAY. "NT" appears on the display panel.

- Some TVs shrink the picture vertically and place black bars at the top and bottom of the screen. This is not a malfunction on the part of either the video recorder or the TV.
- The picture may roll up and down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if the TV does not have a V-HOLD control.)
- The counter and elapsed tape time readings will be incorrect.
- During search, still, or frame-by-frame playback, the picture will be distorted, and there may be a loss of colour.
- Depending on the type of TV, the top and bottom portions of superimposed displays may be cut off during NTSC playback.

Soundtrack Selection

Your video recorder is capable of recording three soundtracks (HI-FI L, HI-FI R and NORM) and will play back the one you select.

During Playback

Pressing AUDIO MONITOR on the remote control changes the soundtrack being played back as follows:

TRACK	USE	
Recorder's Front Panel		
L + R	For Hi-Fi stereo tapes	
L	For main audio of Bilingual tapes	
R	For sub audio of Bilingual tapes	
NORM	For audio-dubbed tapes	
L + R + NORM	For audio-dubbed tapes	

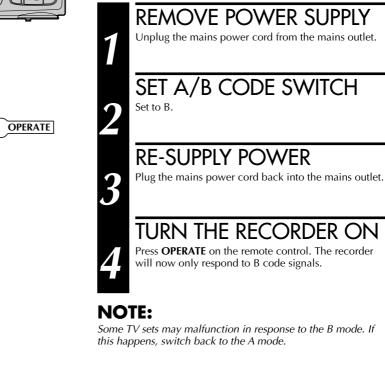
NOTES:

- "L + R" should normally be selected. In this mode, Hi-Fi stereo tapes are played back in stereo, and the NORM track is played back automatically for tapes with only normal audio.
- For instructions on recording NICAM stereo and bilingual programmes, refer to page 18.
- Bilingual programmes are not currently broadcast in the U.K.

PLAYBACK (cont.)

Remote A/B Code Switching

The remote control is capable of controlling two JVC video recorders independently; one set to respond to the remote control's A code control signals and another set to respond to B code control signals. The remote control is preset to send A code signals because your video recorder is initially set to respond to A code signals. You can easily modify your video recorder to respond to B code signals.



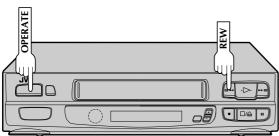
Next Function Memory

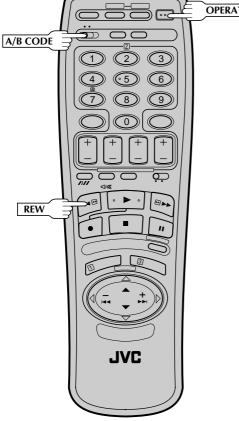
You can set your recorder's power to go off automatically after the tape is fully rewound. Before starting, make sure the recorder is in the Stop mode.

For Automatic Power Off After Tape Rewind . . .

... press **REW**, then press **OPERATE** within 2 seconds.

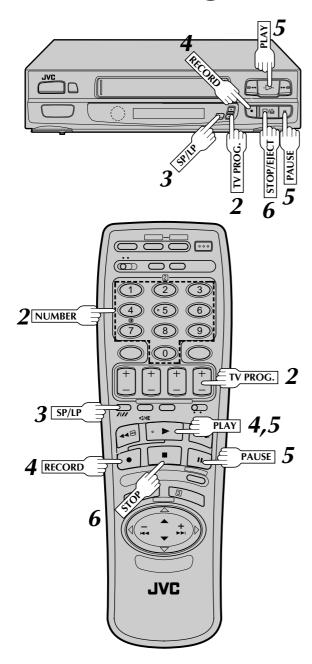






RECORDING

Basic Recording



TV signals being received by the recorder's built-in tuner can be recorded onto a video tape. You can "capture" a TV programme using your video recorder.

LOAD A CASSETTE

Insert a cassette with the record safety tab intact.

• The counter is reset to 0:00:00 and the recorder power comes on automatically.

CHOOSE A PROGRAMME

Press TV PROG. +/- or the NUMBER keys to select the preset you wish to record. The name of the station appears in the recorder's display panel for 5 seconds, followed by the preset position number. (Only stations that appear in the Confirmation display will be displayed.)

SET TAPE SPEED

Press SP/LP. Check the SP/LP indicator on the recorder display panel to confirm the selected tape speed.

START RECORDING

Press and hold **RECORD** and **PLAY** on the remote control, or press RECORD on the recorder.

PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

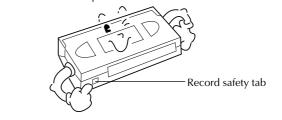
STOP RECORDING

Press STOP on the remote control or STOP/EJECT on the recorder. Then press STOP/EJECT to remove the cassette.

Accidental erasure prevention

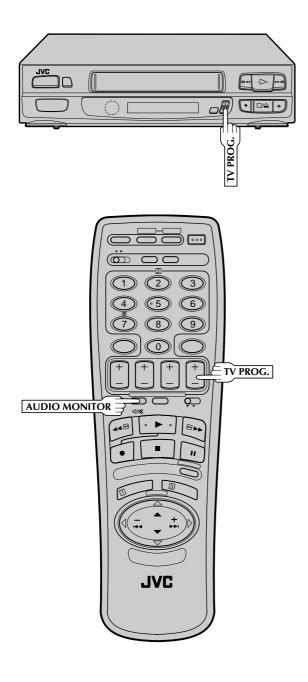
5

• To prevent accidental recording on a recorded cassette, remove its safety tab. To record on it later, cover the hole with adhesive tape.



RECORDING (cont.)

Recording Features



Record One Programme While Watching Another



SELECT PRESET TO WATCH

Once recording is in progress, all you need to do is to set the preset controls on the TV for the station you wish to view.

• The programme selected with the TV's preset controls appears on the TV screen while the one selected with the **TV PROG**. button is recorded on the tape.

To Record NICAM Stereo And Bilingual Programmes

Your recorder is equipped with a digital stereo sound decoder for reception of NICAM stereo and bilingual broadcasts. The NICAM audio programme will be recorded on the Hi-Fi audio track, and the Standard audio programme on the Normal audio track.

- To listen to a stereo programme, press AUDIO MONITOR until "L" and "R" appear on the front panel.
- To listen to a bilingual programme, press AUDIO MONITOR until either "L" or "R" appears on the front panel (as required).
- To listen to the Standard audio programme, press AUDIO MONITOR until "NORM" appears on the front panel.

NOTES:

- If the NICAM stereo signal becomes weak, the broadcast is automatically recorded in monaural for better quality.
- Before playing back a programme recorded in NICAM stereo, or a bilingual programme, refer to "Soundtrack Selection" (CF pg. 15).
- Bilingual programmes are not currently broadcast in the U.K.

Elapsed Recording Time Indication

You can check the exact time of a recording.

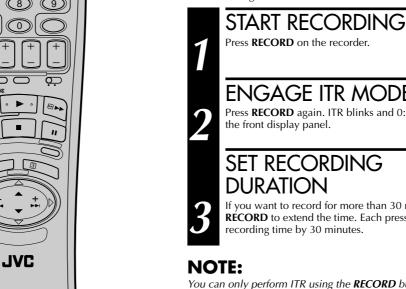


Press C. RESET before starting recording or playback.

• The counter is reset to "0:00:00" and shows the exact elapsed time as the tape runs.

Instant Timer Recording (ITR)

This easy method lets you record for from 30 minutes to 6 hours (selectable in 30-min. increments), and shuts the recorder off after recording is finished.



·□-

h

RECORD

DISPLAY

oØ,

000

3

6

 (\Box)

1

2

8

JVC

C.RESET

ENGAGE ITR MODE

Press RECORD again. ITR blinks and 0:30 appears on the front display panel.

SET RECORDING DURATION

If you want to record for more than 30 minutes, press **RECORD** to extend the time. Each press extends recording time by 30 minutes.

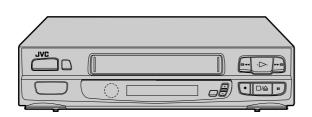
NOTE:

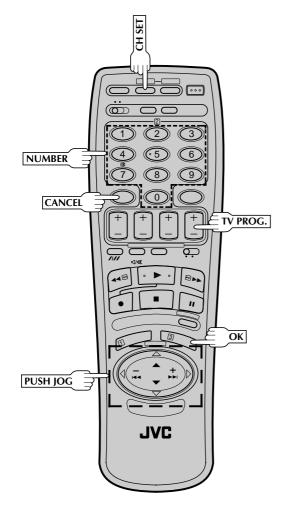
You can only perform ITR using the RECORD button on the recorder's front panel.

TIMER RECORDING

20

Information On Video Plus+





With Video Plus+, timer programming is greatly simplified because each TV programme has a corresponding code number which your recorder is able to recognize.

NOTE:

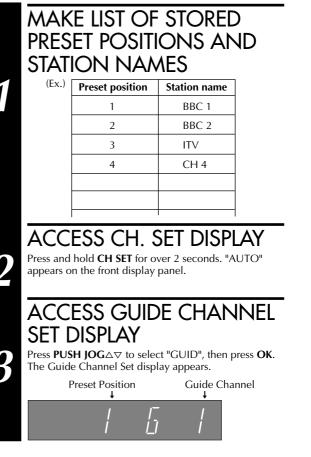
"Guide Channel" refers to the assigned TV station numbers, according to broadcast area, for Video Plus+ timer recording.

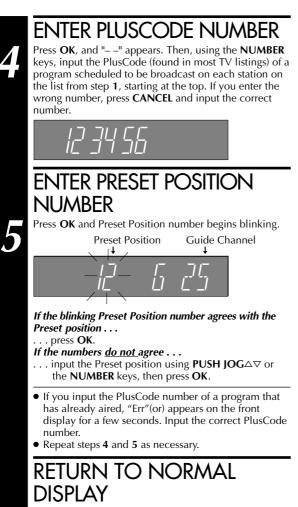
IMPORTANT

Perform the following procedure after the channel setting steps on pages 8 and 29 – 31, and after the Clock Set procedure on page 9.

After setting the Guide Channel, the station names and preset positions may be incorrect if you stored or skipped channels. In this case, re-perform Guide Channel setting.

Guide Channel Set





Press CH SET and selection is complete.

6

If you already know the Guide Channel number for a station . . . 1– After step 3, press **PUSH JOG** \triangleright .

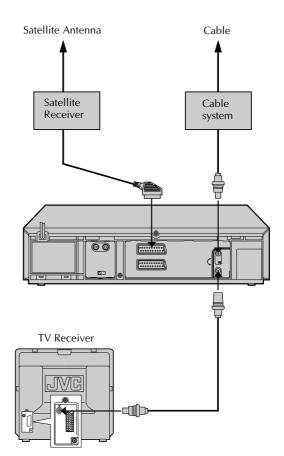
- The Guide Channel number begins blinking
- 2– Enter the Guide Channel number using the NUMBER keys or PUSH JOG△▽, then press PUSH JOG▷.
- The Preset Position number begins blinking.
 3- Enter the preset position using the NUMBER keys or
 - **PUSH JOG** $\Delta \nabla$, then press **OK**.
- Repeat 1 and 3 as necessary.

4- Press CH SET.

NOTES:

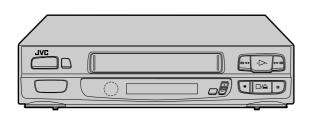
- If you own a satellite receiver, connect it to the AV2 IN connector on the back of the recorder. Then, in step 5 above, set the input mode to "AU2" by pressing **NUMBER** key "0" or **TV PROG.** +/-.
- If you're receiving broadcasts via a cable box through preset "5" (example) on your recorder, select the preset position 5 in step 5.
- After selecting the programme you wish to record from your cable system or satellite receiver, <u>set the system's timer</u> — <u>if your cable</u> or satellite receiver does not have a timer, leave it switched on.

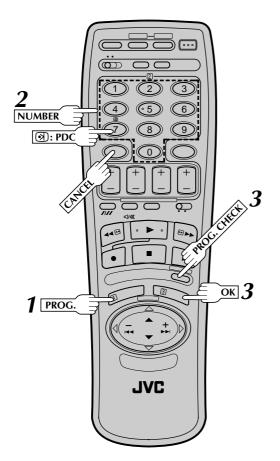
THE SATELLITE RECEIVER IS SHOWN CONNECTED TO THE "AV2 IN" (SCART) CONNECTOR AND THE CABLE SYSTEM CONNECTED VIA THE AERIAL SOCKET AND TUNED TO, FOR EXAMPLE, PRESET POSITION 5 ON YOUR TV.



Video Plus+ Timer Recording

Before performing Video Plus+ Timer Recording, be sure to read "Information on Video Plus+" on page 20.



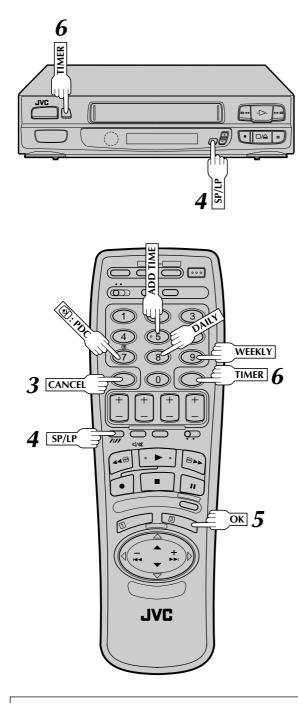


Before performing the following steps, insert a cassette with the safety tab in place. The recorder power will come on automatically.

TIMER RECORDING(cont.)



If you're not receiving PDC (Programme Delivery Control), press NUMBER key "7" to set ③ to "OFF" so that the indicator disappears. (□ pg. 26).



Satellite Receiver Users

To timer-record a satellite broadcast using Video Plus+, perform steps 1 - 6 and, before the selected programme begins, select the appropriate channel on the satellite receiver. Then set the receiver's timer. If your satellite receiver doesn't have a timer, leave the unit's power switched on.

SET TAPE SPEED

Press SP/LP (////) to set the tape speed.

RETURN TO NORMAL DISPLAY

• Repeat steps 1 – 5 for each additional programme.

ENGAGE RECORDER'S TIMER MODE Press TIMER.

NOTE:

For safety, your recorder disables all other functions while in the Timer mode. If you want to use the recorder but its Timer mode is engaged, press **TIMER** and all other functions are operable. To re-engage the timer, press **TIMER**.

To Delay The Stop Time . . .

Press OK.

... press **ADD TIME** (NUMBER key "5") after pressing **OK** in step **3**. Each time you press, the Stop time is delayed by 5 minutes (meaning that 5 minutes of recording time is added). You can easily compensate for anticipated programme schedule delays this way.

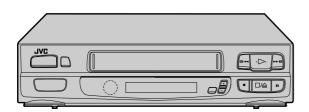
To Timer-Record Weekly Or Daily Serials . .

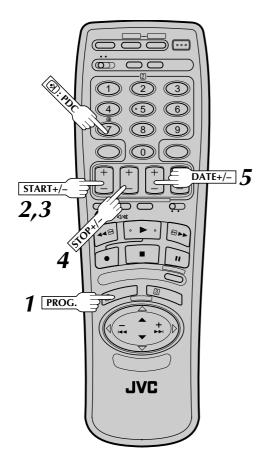
... after pressing **OK** in step **3**, press **WEEKLY** (**NUMBER** key "9") for weekly serials or **DAILY** (**NUMBER** key "8") for daily serials (Monday – Friday). "W" or "D" appears on the front display panel.

You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "FULL" appears on the front display panel. To record the extra programme, you must first cancel any unnecessary programmes (IFF pg. 26).

Regular Timer Programming

Remember, the clock must be set before you can progamme the timer ($\square pg. 9$).





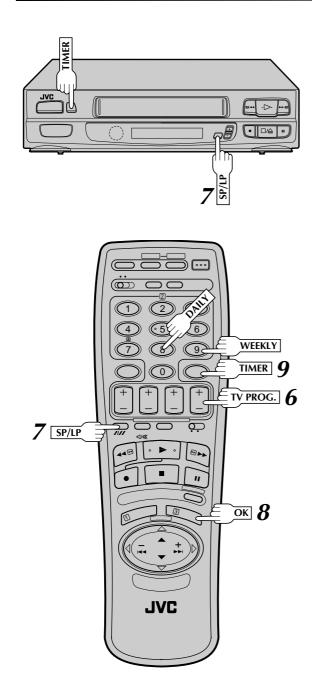
Before performing the following steps, insert a cassette with the

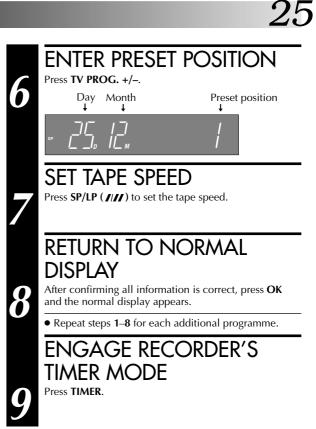
TIMER RECORDING(cont.)

Before performing the following steps, insert a cassette with the safety tab in place. The recorder power will come on automatically.



Press **DATE +/-**. (The current date appears on the front display panel. The date you enter appears in its place.)





To Timer-Record Weekly Or Daily Serials anytime during steps 2 through 8, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday – Friday). "W" or "D" appears on the front display panel.

NOTES:

- For safety, your recorder disables all other functions while in the Timer mode. If you want to use the recorder but its Timer mode is engaged, press **TIMER** and all other functions are operable. To re-engage the timer, press **TIMER**.
- You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "FULL" appears on the front display panel. To record the extra programme, you must first cancel any unnecessary programmes (CF pg. 26).
- To timer-record a satellite broadcast through a satellite receiver connected to the AV2 IN connector on the back of the recorder, in step 6 above, select "AU2" for the preset position by pressing **TV PROG.** +/-. Before the selected programme begins, select the appropriate channel on the satellite receiver, then set the receiver's timer. If your satellite receiver doesn't have a timer, leave the unit's power switched on.

TIMER RECORDING(cont.)

Check And Cancel Programmes

ACCESS PROGRAMME DISPLAY

Press **PROG CHECK**. The recording start and stop times appear on the front display panel. Then press **OK** and the date and the preset position appear. Each time you press **PROG CHECK** the next program's information appears.

If All Information Is Correct . . .

- ... programming is completed.
- If You Wish To Revise Data . . .
- ... with the recorder's power turned on, go to step **2**. *If You Wish To Cancel A Program ...*
- ... with the recorder's power turned on, press **CANCEL**. All information you input is deleted.

REVISE PROGRAMME

Input the appropriate data using the **START +/-, STOP +/-, DATE +/-** and **TV PROG. +/-** buttons on the remote control.

PDC Recording

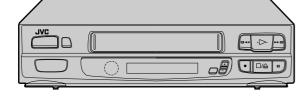
Now available from some TV stations, PDC (Programme Delivery Control) is a service designed to assure safe, accurate timer recording. With this system, special code signals are transmitted together with the audio/video signals. These code signals control your video recorder and have precedence over advertised times you preset in the timer. This means that your recorder will start and stop recording when the preset TV programmes actually start and end — even if the broadcast time of a preset TV programme is changed.

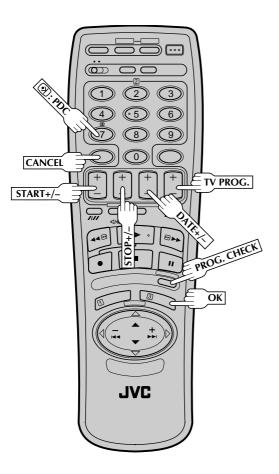
To Use PDC Service . . .

The default setting for PDC is "ON". To cancel PDC, press 🕲 : **PDC** (**NUMBER** key "7") so that the PDC indicator (🕲) on the display panel disappears during Video Plus+ or regular timer programming.

NOTES:

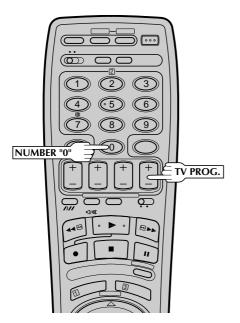
- When you manually enter programmes (regular timer programming), set the start time (PDC time) exactly as advertised in the TV listing. A different time than advertised will result in no recording.
- PDC Recording is also possible when a satellite tuner or a cable box is connected to AV2 IN on your recorder.





EDITING

Edit To Or From Another Video Recorder



You can use your video recorder as the source player or the recording deck.

MAKE CONNECTIONS Connect the player's AUDIO/VIDEO OUT connector to the recorder's AUDIO/VIDEO IN connector. When Using Your Video Recorder As The Source Player . . .

... connect its AV1 IN/OUT connector to the recording deck.

When Using Your Video Recorder As The Recording Deck . . .

 \ldots you can use the AV1 IN/OUT or AV2 IN connectors.

SET RECORDING DECK'S INPUT MODE

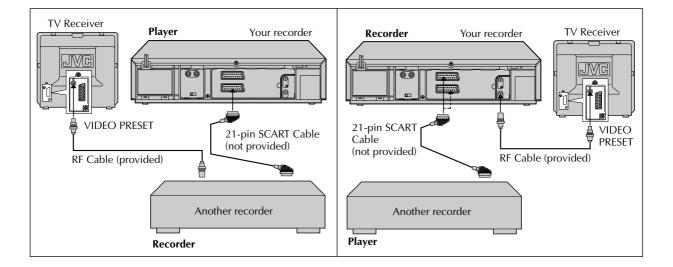
Set to AUX. With this video recorder, press **NUMBER** key "0" and/or **TV PROG.** to select depending on the connector being used — "AU 1" for the AV1 IN/OUT connector, or "AU 2" for the AV2 IN connector.

START SOURCE PLAYER Engage its Play mode.

START RECORDING DECK Engage its Record mode.

NOTE:

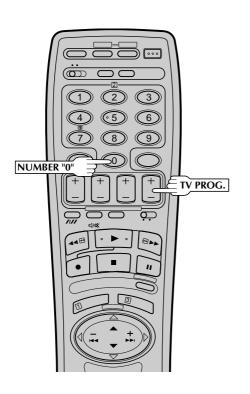
All necessary cables can be obtained from your dealer.



You can use a comporter as

Edit From A Camcorder

28



You can use a camcorder as the source player and your video recorder as the recorder.

EDITING (cont.)

MAKE CONNECTIONS Connect the camcorder's AUDIO/VIDEO OUT connectors to the recorder's AUDIO/VIDEO input connectors.

SET RECORDER'S INPUT MODE

- If you're using the AV1 IN/OUT connector select "AU1" by pressing **NUMBER** key "0" and/or **TV PROG**.
- If you're using the AV2 IN connector . . .
 ... select "AU2" by pressing NUMBER key "0" or TV PROG.

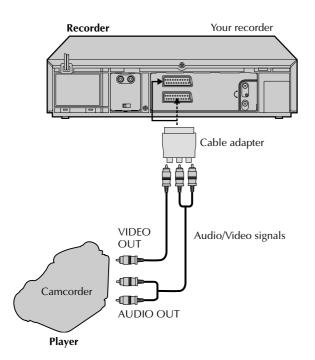
START CAMCORDER

Engage its Play mode.

3

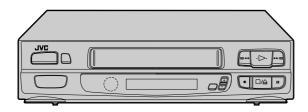
START RECORDER

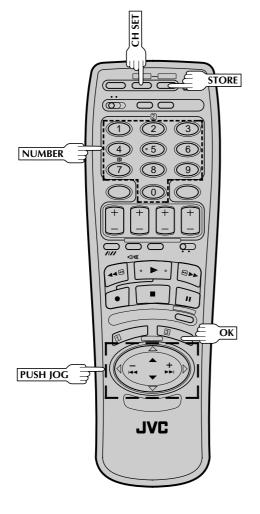
Engage its Record mode.



USING THE CONFIRMATION DISPLAY

29





Storing Channels Manually

Store channels that were not stored during Auto Channel Set.



DISPLAY

Press **PUSH JOG**△▽ to select "MANU"(AL), then press OK. The Confirmation display appears.

SELECT POSITION

Press **PUSH JOG** $\triangle \nabla$ is until an open position in which you want to store a channel is displayed, then press OK. The Manual Ch. Set display appears. Preset Position

Channel T T



INPUT CHANNEL

The channel number "21" appears blinking. Press the NUMBER keys to input the channel number you want to store.

● For fine tuning adjustment, press **PUSH JOG** <>> until the channel number blinks, then press PUSH **JOG** $\triangle \nabla$. While tuning, "-", "-" or "_" appears.

ENTER NEW CHANNEL INFORMATION

Press OK or STORE, and the Confirmation display appears.

6

• Repeat steps 3 through 5 as necessary.

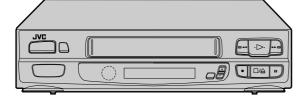
RETURN TO NORMAL DISPLAY Press CH SET.

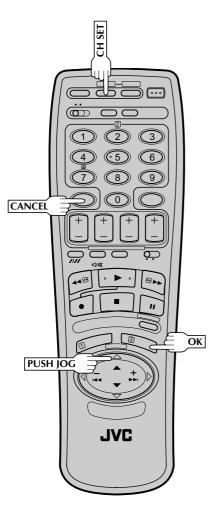
• To input the station name, see page 31. To change positions, see "Change Station Preset • Position" (🖅 pg. 30).

USING THE CONFIRMATION DISPLAY (cont.)

Perform steps 1 and 2 on page 29 to access the Confirmation display before continuing.

Delete A Channel





SELECT STATION Press **PUSH JOG** $\triangle \nabla$ until the station you want to delete is displayed.

DELETE STATION

Press CANCEL.

- The stations following the cancelled station all move up one position.
- Repeat steps 1 and 2 as necessary.

RETURN TO NORMAL DISPLAY Press CH SET.

Change Station Preset Position



SELECT ITEM

Press $\textbf{PUSH}~\textbf{JOG} \triangle \bigtriangledown$ until the item you want to move is displayed. Then press OK and the station name (or "--") and its channel number begin blinking.



SELECT NEW POSITION

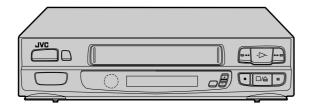
Press $\textbf{PUSH}~\textbf{JOG} \triangle \bigtriangledown$ to move the station to the new preset position, then press OK.

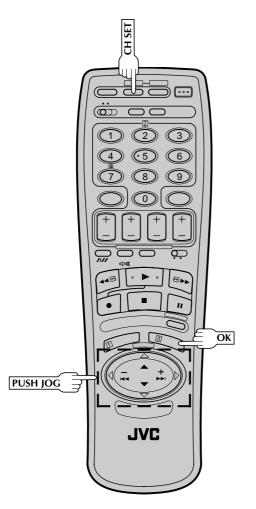
Example: If you moved the station in position 3 to position 7, the stations originally in positions 4-7 each move up one position.

• Repeat steps 1 and 2 as necessary.

RETURN TO NORMAL DISPLAY Press CH SET.

Perform steps 1 and 2 on page 29 to access the Confirmation display before continuing.





Set Stations (A)

SELECT ITEM

Press **PUSH JOG** $\triangle \nabla$ until the item you want is displayed. Then press OK twice and the station's name (or "---") begins blinking.



SELECT NEW STATION

Press **PUSH JOG** $\bigtriangleup \forall$ until the new station's name you want to store begins blinking. Registered station names (F pg. 33) appear as you press PUSH JOG $\triangle \nabla$.

SWITCH STATIONS Press OK.

• Repeat steps 1 through 3 as necessary.

RETURN TO NORMAL DISPLAY Press CH SET.

Set Stations (B)

NOTE:

First perform step 1 of the above procedure.

SELECT STATION NAME CHARACTER

Press **PUSH JOG** ▷ and the first letter of the station name (or "_") begins blinking.

ENTER NEW CHARACTER

Press **PUSH JOG** $\triangle \nabla$ to cycle through the characters (A–Z, 0–9, –, *, +, – (space)) and stop when the desired one is indicated, then press **PUSH JOG** ▷ to enter. Enter the remaining characters the same way (maximum of 4).

After entering all characters, press OK.

- Repeat steps 1 through 3 as necessary.
- If you make a mistake, press **PUSH JOG** ⊲ ▷ until the incorrect character begins blinking. Then enter the correct character by pressing **PUSH JOG** $\Delta \nabla$.

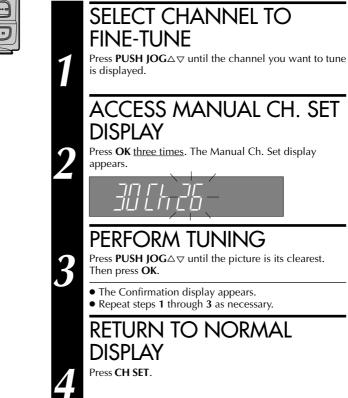
RETURN TO NORMAL DISPLAY Press CH SET.

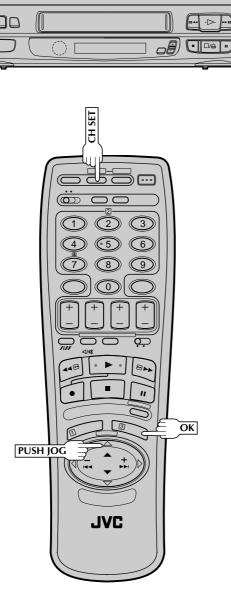
JVC

USING THE CONFIRMATION DISPLAY (cont.)

Perform steps 1 and 2 on page 29 to access the Confirmation display before continuing.

Fine-Tuning Channels Already Stored





TV STATION AND ID LIST

			10*
STATION NAME	ID*	STATION NAME	ID*
Anglia TV	ANGL	RTE 1	RTE1
ARD	ARD	RTL	RTL
ARTE	ARTE	RTL 2	RTL2
BBC1	BBC1	RTP	RTP
BBC2	BBC2	SAT	
Berlin 1	BLN1	SAT 1	SAT1
Berlin 2	BLN2	Scottish TV	SCOT
Border TV	BORD	SC4	SC4
Bayern1	BR1	SDR	SDR
Bayern3	BR3	SDR1	SDR1
BRT1	BRT1	SFB1	SFB1
BRT2	BRT2	SFB3	SFB3
Children Ch	CHLD	SKY	
Canal +	CH+	Sky One	SKY1
CNN	CNN	Sky Net	SKYN
Channel TV	CHNL	Sport	SPRT
Central TV	CNTR	SR 1	SR1
Channel 4	CH 4	Super RTL	SRTL
Channel 5	CH 5	STV Test	STVT
DRS	DRS	STV 1	STV1
DR TV	DRTV	STV 2	STV2
DSF	DSF	Suedwest3	SW3
Euronews	EURN	SWF 1	SWF1
Euronews	EURO	Schweiz4	SWZ4
Eurosports	EURS	TYNE TEES	TEES
France1	FR1	Text	TEXT
France2	FR2	TF1	TF1
France3	FR3	TNT int	
Granada TV	GRNA	TRT int	TRT
	GRMP	TSI	TSI
Grampian TV Hessen1	HR1	TSR	TSR
Hessen3	HR3	TSW	TSW
HRT	HRT	TVE	TVE
HTV	HTV	TV Polonia	TVPA
ITV Network	ITV	TVP 1	TVP1
Kabelkanal	KABL	TVP 2	TVP2
London	LNDN	TVS	TVS
MDR	MDR	TV2	TV2
MTV	MTV	TV5	TV5
Nord3	N3	Tele Zurich	TZUR
NDR1	NDR1	Ulster TV	ULST
NDR3	NDR3	Veronica	VERN
NED1	NED1	VIVA	VIVA
NED2	NED2	VIVA2	VIV2
NED3	NED3	VOX	VOX
Network 2	NET2	VTM	VTM
NRK	NRK	VT4	VT4
N-TV	N-TV	West1	WDR1
Offener Kanal	OKAN	West3	WDR3
ORF1	ORF1	YLE 1	YLE1
ORF2	ORF2	YLE 2	YLE2
ORF3	ORF3	Yorkshire TV	YORK
OWL 3	OWL3	ZDF	ZDF
Premiere	PRM1	Zurich 1	ZUR1
PR07	PR07	3SAT	3SAT
RAI1	RAI1		
RAI2	RAI2		ars on your recorder's front display
RAI3	RAI3	panel.	
RB1	RB1		
RB3	RB3		
Rikisutvarpid-S	RKPS		
RTBF 1	RTB1		
RTBF 2	RTB2]	

TV STATION CHANNEL NUMBER GUIDE

Only the main stations are listed. There are in addition many relay stations, and full lists are available from BBC and ITC.

В	BC1	BBC2	ITV	CH4
London & South-East				
Bluebell Hill	40	46	43	65
Crystal Palace	26	33	23	30
, Dover	50	56	66	53
Heathfield		52	64	67
Oxford		63	60	53
	57	05	00	55
South-West				
Beacon Hill		63	60	53
Caradon Hill	22	28	25	32
Huntshaw Cross	55	62	59	65
Redruth	51	44	41	47
Stockland Hill	33	26	23	29
Channel Islands				
Fremont Point	51	44	41	47
C4				
South				
Hannington		45	42	66
Midhurst		55	58	68
Rowridge	31	24	27	21
West				
Mendip	58	64	61	54
East				
	21	27	24	21
Sandy Heath				
Sudbury		44	41	47
Tacolneston	62	55	59	65
Midlands				
Ridge Hill	22	28	25	32
Sutton Coldfield		40	43	50
The Wrekin		33	23	29
Waltham		64	61	54
vvarillalli	50	57	01	Эт
North				
Belmont		28	25	32
Emley Moor	44	51	47	41

	BBC1	BBC2	ITV	CH4
North-West				
Caldbeck	30	34	28	32
Winter Hill		62	59	65
	. 55	02	55	05
North-East				
Bilsdale West Moor		26	29	23
Chatton		45	49	42
Pontop Pike	. 58	64	61	54
Scotland				
Angus	. 57	63	60	53
Black Hill		46	43	50
Sandale		_		
Caldbeck	. —	34	28	32
Creigkelly	. 31	27	24	21
Darvel		26	23	29
Durris	. 22	28	25	32
Eitshal	. 33	26	23	29
Keelylang Hill	. 40	46	43	50
Knock More		26	23	29
Rosemarkie	. 39	45	49	42
Rumster Forest	. 31	27	24	21
Selkirk	. 55	62	59	65
Wales				
Blaenplwyf	31	27	24	21
Carmel		63	60	53
Llanddona		63	60	53
Moel-y-Parc		45	49	42
Presely		40	43	50
Wenvoe		51	41	47
		51		./
Northern Ireland				
	22	20	25	22
Brougher Mountain		28	25	32
Divis	. 31	27	24	21

Limavady 55

62

59

65

TROUBLESHOOTING

35

Before requesting service for a problem, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your video recorder off for repair.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. No power is applied to the recorder.	• The mains power cord is discon- nected.	Connect the mains power cord.
2. The clock is functioning properly, but the recorder cannot be powered.	 "O" is displayed on the display panel. 	Press the TIMER button to turn the "O" indicator off.
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
 The tape does not run during recording. 	• "DD" is displayed on the display panel.	Press PLAY to turn the "III" indicator off.
2. The tape will not rewind or fast- forward.	• The tape is already fully rewound or fast-forwarded.	Check the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
 The playback picture does not appear while the tape is running. 	 If you're using the RF OUT connection the TV receiver's preset selector is set to the wrong video preset the RF switch has been mistakenly set to OFF. If you're using the AV connection, the TV receiver is not set to the AV mode. 	If you are using the RF OUT connec- tion set the TV receiver to the RF converter preset (UHF 36). (IF pg. 5) turn the RF switch back to ON. (IF pg. 5) If you are using the AV connection, set the TV to its AV mode.
2. Noise appears during visual search.	• This is normal.	
 Noise appears during normal playback. 	 The automatic tracking mode is engaged. 	Try manual tracking. (🖙 pg. 13)
 Noise appears during slow-motion playback. 	• The automatic tracking mode is engaged.	Try manual tracking. (🖙 pg. 13)
 Noise appears during still play- back. 		Press PAUSE a few times to remove the noise bars from the screen.
 Breaks are noticeable in Hi-Fi soundtrack. 	• Automatic tracking is engaged.	Engage and adjust tracking manually (☞ pg. 13)
 The playback picture is blurred or interrupted while TV broadcasts are clear. 	• The video heads may be dirty.	Consult your JVC dealer.
RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording cannot be started.	• There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed.	Insert a cassette, or using adhesive tape, reseal the slot where the tab was removed.
2. TV broadcasts cannot be recorded.	• "AU" has been selected as the input	Set to the desired preset.

CONTINUED ON NEXT PAGE.

۲

TROUBLESHOOTING (cont.)

۲

3. Tape-to-tape editing is not possible.	• The source (another video recorder, camcorder) has not been properly	Confirm that the source is properly connected.
	All necessary power switches have	Confirm that all units' power switches
	not been turned on.	are turned on.
	• The input mode is not correct.	Set the input mode to "AU".
4. Camcorder recording is not	• The camcorder has not been	Confirm that the camcorder is
possible.	properly connected.	properly connected.
	• The input mode is not correct.	Set the input mode to "AU".
TIMER RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Timer recording won't work.	• The clock and/or the timer have	Re-perform the clock and/or timer
	been set incorrectly.The timer is not engaged.	settings. Press TIMER and confirm that "④" is
	• The time is not engaged.	displayed on the display panel.
2. "O" and "OO" on the display	• The timer is engaged but there's no	Load a cassette with the Record
panel won't stop blinking.	cassette loaded.	Safety tab intact, or cover the hole
		using adhesive tape.
3. The cassette is automatically ejected, and "⊙" and "⊙" on the	• The loaded cassette has had its Record Safety tab removed.	Remove the cassette and cover the hole with adhesive tape, or insert a
display panel won't stop blinking.	,	cassette with the Record Safety tab
		intact.
4. "O" blinks for 10 seconds and the	• TIMER has been pressed when there	Check the programmed data and re-
Timer mode is disengaged.	are no programs in memory, or the timer record information has been	program as necessary, then press TIMER again.
	programmed incorrectly.	0
5. The cassette is automatically	• The end of the tape was reached	The programme may not have been
ejected, the power shuts off and "⊙" and "◯◯" won't stop	during timer recording.	recorded in its entirety. Next time make sure you have enough time on
blinking.		the tape to record the entire
-		programme.
6. Video Plus+ does not timer-record	• The recorder's preset positions have	Refer to "Guide Channel Set" and
properly.	been set incorrectly.	re-perform the procedure (\square pg. 20).
OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Whistling or howling is heard from	• The camcorder's microphone is too	Position the camcorder so its
the TV during camcorder record- ing.	close to the TV.The TV's volume is too high.	microphone is away from the TV. Turn the TV's volume down.
2. When scanning presets, some of	The rvs volume is too linght Those presets have been designated	If you need the skipped presets,
them are skipped over.	to be skipped.	restore them ($\square P$ pg. 29).
3. The preset cannot be changed.	• Recording is in progress.	Press PAUSE to pause the recording,
st the preset cannot be changed.		change presets, then press PLAY to
		resume recording.
4. The remote control won't operate a $h'(C,T)$	• The TV/VCR switch is in the wrong	Set the switch to TV.
JVC TV.	position.	
5. Channel settings that were made manually seem to have changed or	 After the manual settings were made, Auto Channel Set was 	Perform manual setting again.

•

QUESTIONS AND ANSWERS

PLAYBACK

Q. What happens if the end of the tape is reached during playback or search?A. The tape is automatically rewound to the beginning	Q. Wh of t g. the doe
 Q. Can the video recorder indefinitely remain in the still mode? A. No. It stops automatically after 5 minutes to protec the heads. 	A. This resu
Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem? A. This is normal.	. Rec A. No. min Q. Wh A. The
Q. When returning from multi-speed search to norma playback, the picture is disturbed. Should I be concerned about this?	beg
 A. No, it is normal. Q. Noise bars appear during multi-speed search. What the problem? A. This is normal. 	Q. "RE the at's A. No. prog
 Q. Other than preventing further recording, what effective does removing the Record Safety tab have? A. It disables marking of index codes. 	Q. Can ect or a A. Yes.
 Q. Sometimes, during Index Search, the video record can't find the programme I want to see. Why not? A. There may be index codes too close together. 	

RECORDING

Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen?
A. This is normal. It reduces distortion at the pause and resume points.
 Q. Can the video recorder indefinitely remain in the Record-Pause mode? A. No. The video recorder shuts off automatically after 5 minutes to protect the heads.
 Q. What happens if the tape runs out during recording? A. The video recorder automatically rewinds it to the beginning.
TIMER RECORDING Q. "REC" and "②" remain lit on the display panel. Is there a problem? A. No. This is a normal condition for a timer recording in progress.
Q. Can I program the timer while I'm watching a tape or a TV broadcast?A. Yes.

37

ATTENTION:

This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the recorder off and unplug the mains power cord. Then plug it in again and turn the recorder on. Take out the cassette. After checking the cassette, operate the unit as usual.

38 List Of Terms

This guide serves as a quick way to loacte frequently used terms. The first page on which the term appears is listed. Most terms appear more than once in the instruction manual.

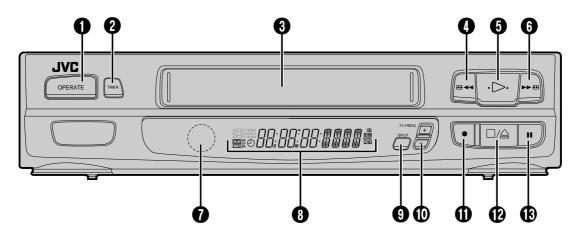
A
A/B Code Switch 🖙 pg. 16
A-Code Signals I pg. 16
Aerial 🗊 pg. 4
Audio Monitor 🖙 pg. 15
Auto Channel Set IF pg. 8
Auto Clock Set IF pg. 9
Auto Clock Set IF pg. 9 AUX IF pg. 21
AV LF pg. 4
AV If pg. 4 AV Connection If pg. 4
В
B B-Code Signals ☞ pg. 16
C
Cancel Cancel
Cassette Adapter IF pg. 11
Clock Clock
Clock Set Clock Set
Clock Set CF pg. 9 Contents CF pg. 1
Counter Reset 🖙 pg. 19
D
Daily range 23
Delete A Channel
Daily IF pg. 23 Delete A Channel IF pg. 30 Display Panel IF pg. 42
F
E Editing ☞ pg. 27
<u>F</u>
Fine Tuning 🖙 pg. 32
Frame-By-Frame Playback 🖙 pg. 12
Fine Tuning IF pg. 32 Frame-By-Frame Playback IF pg. 12 Front View IF pg. 39
G
Guide Channel 🖙 pg. 20
Head Cleaning IF pg. 2
H Head Cleaning ☞ pg. 2 High-Seed Search ☞ pg. 12
<u> </u>
Index Code
Index Code IF pg. 14 Index Search IF pg. 14
Instant ReView
Instant ReView If pg. 13 Instant Timer Recording (ITR) If pg. 19
Just Clack
Just Clock 🖙 pg. 9
L
Load A Cassette III pg. 11

Μ

Manual Channel Set IF pg. 29
Manual Channel Set IF pg. 29 Manual Clock Set IF pg. 10
Manual Tracking 🖙 pg. 13
Moisture Condensation IF pg. 2
N
Next-Function Memory IF pg. 16
NICAM III pg. 18
NTSC Playback IF pg. 15
Р
Programme Delivery Control (PDC) IF pg. 26
Programme Delivery Control (PDC) IF pg. 26 Playback IF pg. 11
PlusCode [™] <i>II</i> pg. 21
Preset Position 🖙 pg. 8
R
Rear View 🖙 pg. 42
Record Safety Tab IF pg. 17
Recording IF pg. 17
Repeat Playback 🖙 pg. 14
RF Connection 🖙 pg. 4
<u>S</u>
Scart Connector 🗊 pg. 4
Slow Motion CF pg. 12
Specifications 🖙 pg. 43
Slow MotionIf pg. 12SpecificationsIf pg. 43Still PictureIf pg. 12
т
Tape Speed 🖙 pg. 17
Timer Programming 🖙 pg. 24
Timer Recording IF pg. 20
Tracking 🖙 pg. 13
Tracking 🖙 pg. 13 Tuner 🖙 pg. 8
V
Variable-Speed Search 🖙 pg. 12
Video Plus+ 🖙 pg. 20
W
Weekly 🖙 pg. 23

INDEX

FRONT VIEW



- OPERATE Button turns recorder on/off (loading a cassette also turns power on). □ pg. 5
- **∂** TIMER Button engages timer standby mode.□ pg. 23
- Cassette Loading Slot is where cassette is inserted; door closes, "cassette loaded" indicator lights up on front display panel.
- ④ Rewind [REW] Button rewinds tape; initiates high-speed reverse search. ☞ pg. 11
- 6 Fast Forward [FF] Button fast-forwards tape; initiates high-speed forward search. ☞ pg. 11
- Infrared Beam Receiving Window is where remote control should be aimed when in use.

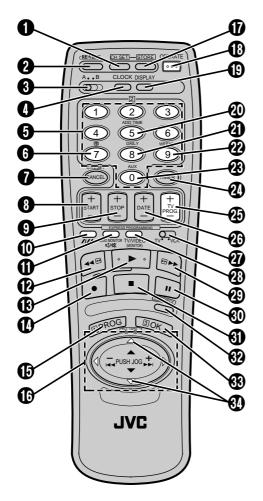
③ Display Panel provides clear view of various displays and indicators. I pg. 42

39

- **9** SP/LP Button selects tape speed. IF pg. 17
- **(D)** TV PROG. +/– Buttons select preset. IF pg. 8
- **(f)** RECORD Button starts regular recording (press once) □ pg. 17, Instant Timer Recording (press twice); sets duration of ITR. □ pg. 19
- STOP/EJECT Button stops tape; ejects tape during Stop mode. IF pg. 11
- PAUSE Button stops tape temporarily during recording. IF pg. 17; stops tape temporarily during playback; plays back frame by frame with each additional press. IF pg. 12

INDEX (cont.)

40 REMOTE CONTROL



Buttons shown in white (\Box) can also be used to operate JVC TVs ($\Box P p_2$. 41).

- CH SET Button accesses Ch. Set display; closes Confirmation display. ☞ pg. 8
- 2 REVIEW Button "reviews" timer-recorded programme. ☞ pg. 13
- A/B CODE Switch enables setting of recorder to respond to A- or B-code command signals.
 pg. 16
- Source recording. □ pg. 27
- CANCEL Button erases previously entered data.
 Pg. 21
 C.RESET Button resets counter to 0:00:00.

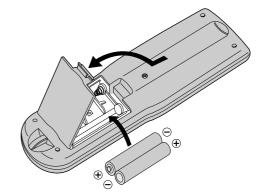
☞ pg. 19

- ③ START +/- Button accesses Program display; inputs of programme Start Time. ☞ pg. 24
- ⑦ SP/LP Button selects tape speed. ☞ pg. 17 Digit Entry Button is used in controlling connected TV. ☞ pg. 41
- AUDIO MONITOR Button changes output sound mode. pg. 15
 TV Mute Button mutes sound of connected TV.
 pg. 41
- Rewind [REW] Button same as button on recorder. pg. 11
- PLAY Button same as button on recorder.
 If pg. 11
- **() RECORD Button** same as button on recorder. □ pg. 17
- PROG Button accesses Timer Programming display.
 r pg. 22
- PUSH JOG △▽ ⊲▷ Button is used for display selection. ☞ pg. 8
 PUSH JOG ⊲▷ Button sets preset of TV
 ☞ pg. 41; initiates functions such as Index Search ☞ pg. 14, variable-speed search, frame by frame playback. ☞ pg. 12
- ⑦ STORE Button is used when storing channels manually. ☞ pg. 29

- DISPLAY Button switches display between clock time and counter readings. pg. 19
- ADD TIME Button adds time to end of recording (5 minutes each time button is pressed.)
 pg. 23
- DAILY Button enables timer recording of daily serials. IP pg. 23
- WEEKLY Button enables timer recording of weekly serials. IF pg. 23
- ③ TIMER Button same as button on recorder. □ pg. 23
- TV PROG. +/- Button selects preset.
 r pg. 8
- DATE +/- Button inputs date of programme for timer recording. pg. 24
- TV/VCR Switch enables remote control of VCR or connected TV. IF "Operating JVC TVs" in the right column.
- TV/VIDEO Button switches control between TV and VCR. I "Operating JVC TVs" in the right column.
- Fast Forward [FF] Button same as button on recorder. pg. 11
- PAUSE Button same as button on recorder.
 IF pg. 12
- PROG CHECK Button accesses Program displays (next program's information display appears each time button is pressed). riansignal pg. 26
- **W** OK Button enters display selections. **P** pg. 8
- TV VOL △▽ Button controls volume of con- nected TV. ☞ "Operating JVC TVs" in the right column.

Installing Batteries

- 1 Open the battery compartment cover.
- 2 Insert 2 "R6"-size batteries (provided) in the correct
- directions.
- 3 Replace the cover.



How To Use

The remote control can operate most of your video recorder's functions, as well as basic functions of JVC TV sets. See below.

- Point the remote control toward the sensor window.
- The maximum operating distance of the remote control is about 8 m.

NOTE:

If for some reason the remote control doesn't work properly, remove its batteries, wait a short time and then try again.

Operating JVC TVs

To operate your TV, set the **TV/VCR** switch to "TV". The **OPERATE** button, **TV/VIDEO** button, **TV PROG.** +/– buttons, **TV VOL** $\triangle \bigtriangledown$ buttons and the **MUTE** button on the remote control can all be used to operate the TV. Use the **NUMBER** keys, and the **DIGIT ENTRY** (///) button or the **PUSH JOG** $\triangleleft \triangleright$ button to select the TV's preset.

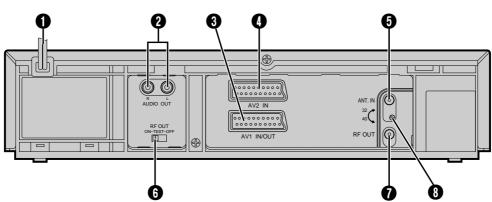
The **DIGIT ENTRY** (////) button corresponds to the 1-digit/ 2-digit entry switching button (often labelled -/--) on your TV's remote control. The **PUSH JOG** \triangleleft button corresponds to the 10+ button, and the **PUSH JOG** \triangleright button corresponds to the 20+ button of your TV's remote control.

NOTE:

The way these buttons are used is determined by your TV. Use these buttons as instructed for your TV's remote control.

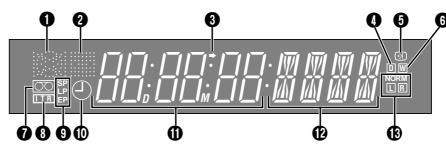
INDEX (cont.)





- Mains Power Cord supplies power to recorder. I pg. 4
 AUDIO OUT (L/R) Connectors enable connection of audio cassette recorder, TV or second video recorder for dubbing. I pg. 7
- 3 AV1 IN/OUT SCART Connector enables AV connection to TV or second recorder; input recordable when "AU 1" selected. IF pg. 4
- AV2 IN Connector enables connection of satellite receiver or second recorder; input recordable when "AU 2" selected.
 pg. 6
- ANT. IN Connector enables connection of aerial. Pg. 4
 RF OUT Switch enables operation via RF connection or AV connection; activates test pattern when tuning TV receiver for video preset. Pg. 5
- **RF OUT Connector** enables connection to aerial terminal of TV receiver. IF pg. 4
- **RF Output Channel Adjustment Screw** enables adjustment of output channel if UHF channel 36 is used in your area. I pg. 5

DISPLAY PANEL



1 and **2** Symbolic Mode Indicators

PLAY:	\geq	REVERSE PLAY:	\sim
FF:	\$>	STILL: Forward Slow:	
REW:	44	STILL: Reverse slow:	\leq
FF VARIABLE Shuttle Search:	>	RECORD:	\bigcirc
REW VARIABLE SHUTTLE SEARCH:	$\leq \ll$	RECORD PAUSE:	

- Start Time/Stop Time Indicator separates Start Time and Stop Time of timer recording on Display Panel.
 Image pg. 22
- "DAILY" Program Mark lights when recorder has been programmed to record daily serial. IF pg. 23
- **9 PDC Indicator** lights when PDC has been engaged for timer recording. I pg. 26
- **③** "WEEKLY" Program Mark lights when recorder has been programmed to record weekly serial. □ pg. 23

- "Cassette Loaded" Mark lights once a cassette is inserted; remains lit until cassette ejected or power turned off.
- ③ Instant Timer Recording Indicator lights when ITR initiated; remains lit until ITR finishes. □ pg. 19
- "Timer" Indicator lights when TIMER has been pressed to engage Timer mode. IF pg. 23
- Counter shows time elapsed since playback or recording began.
 - Clock Display shows current time. Pp. 9
 * Counter and Clock Display appear alternately when DISPLAY is pressed.
- **Channel Display** shows station name being received and its preset position.
- Mode shows external input mode selected. Audio Mode Indicator displays audio output mode
- currently selected. I g pg. 15

SPECIFICATIONS

GENERAL

Power requirement	: AC 220 – 240 V∼, 50/60 Hz
Power consumption	: 24 W
Temperature	
Operating	: 5°C to 40°C
Storage	: -20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 400 x 94 x 338 mm
Weight	: 4.3 kg
Format	: VHS PAL standard
Maximum recording tim	ne
(SP)	: 240 min. with E-240 video
	cassette
(LP)	: 480 min. with E-240 video

cassette

TUNER/TIMER

TV channel storage	
capacity	: 99 positions (+AUX position "AU")
Tuning system	: Frequency synthesized tuner
Channel coverage	: UHF channels 21 – 69 (470 – 862 MHz)
Aerial output	: UHF channel 36 (Adjustable 32 – 40)
Memory backup time	: Approx. 3 min.

ACCESSORIES

Provided accessories	: RF cable,
	Infrared remote control unit,
	"R6" battery x 2

VIDEO/AUDIO

Signal system	: PAL-type colour signal and CCIR monochrome signal, 625 lines/50 fields
Recording system	: DA4 (Double Azimuth) helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 250 lines
Frequency range	: 70 Hz to 10,000 Hz
	(Normal audio)
	20 Hz to 20,000 Hz
	(Hi-Fi audio)
Input/Output	: 21-pin scart connector x 2
	(IN/OUT x 1, IN x 1)
	RCA connector x 1
	(OUT x 1)

Specifications shown are for SP mode unless otherwise specified. E.& O.E. Design and specifications subject to change without notice.

43

HR-A630EK/A631EK



EK Printed in Japan 0496HOV*UN*VP

COPYRIGHT © 1996 VICTOR COMPANY OF JAPAN, LTD.